

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (canceled)

2. (canceled)

3. (currently amended) A mobile patient data terminal comprising:

a data transmission unit, wherein the data transmission unit ~~is configured (A) for receiving~~ receives a first data set, the first data set (a) being assembled via a software program of an arithmetic unit started simultaneously with actuation of a start switch of an X-ray apparatus for producing an X-ray exposure, (b) including one selected from the group consisting of (b)(i) selected parameters, (b)(ii) automatically adjusted parameters, and (b)(iii) both selected and automatically adjusted parameters of the X-ray exposure, and (c) extended with further information for enhancing ~~, wherein the further information serves to enhance~~ enhances protection against errors during a transmission of the first data set from the X-ray apparatus, the further information including (c)(i) a time stamp, (c)(ii) an unambiguous data set identification number, and (c)(iii) a checksum; [[,]] and

a microcontroller, wherein the microcontroller (B) compares (i) an identification number of the X-ray apparatus that transmitted the first data set with (ii) an identification number of the mobile patient data terminal for consistency in order to enable correct association of the received signal with the transmitting X-ray apparatus, and subjects a date and time of the first data set to a plausibility test, where in an absence of plausibility or in case of errors, the microcontroller first requests a repeat transmission of the first data set, and further in as far as a newly received first data set is not plausible or contains errors that cannot be corrected, the microcontroller then terminates further evaluation, otherwise the microcontroller forms ~~for forming~~ a second data set, wherein

~~the second data set includes~~ corresponding to a completed patient data set that (1) combines (i) parameters of the X-ray exposure with (ii) predetermined patient data associated with the parameters of the X-ray exposure before a new X-ray exposure can be made and (2) ensures that the second data set formed is unambiguously associated with the relevant X-ray exposure which is stored in digital form on an image cassette.

4. (currently amended) The mobile patient data terminal as claimed in claim 3, further comprising:

a bar code scanner for detecting an image cassette identification number, ~~and wherein the data transmission unit is further configured (C) for forming forms~~ a third data set by adding the image cassette identification number to the second data set.

5. (previously presented) The mobile patient data terminal as claimed in claim 4, further wherein the data transmission unit is arranged to transmit the third data set formed to a data processing unit.

6. (currently amended) A diagnostic X-ray system, comprising:

a mobile X-ray apparatus, ~~wherein the mobile X-ray apparatus comprises (A) means for producing imaging data of an X-ray exposure in response to actuation of a start switch; and (B)~~

a first data transmission unit for generating and transmitting a first data set to a further data transmission unit, the first data set (a) being assembled via a software program of an arithmetic unit started simultaneously with actuation of the start switch, (b) including one selected from the group consisting of (b)(i) selected parameters, (b)(ii) automatically adjusted parameters, and (b)(iii) both selected and automatically adjusted parameters of the X-ray exposure, and (c) extended with further information for enhancing, ~~wherein the further information serves to enhance~~ protection against errors during a transmission of the first data set from the mobile X-ray apparatus, the further

information including (c)(i) a time stamp, (c)(ii) an unambiguous data set identification number, and (c)(iii) a checksum; and

a data processing unit, ~~wherein the data processing unit comprises (A) means~~ for processing image data of the X-ray exposure made by ~~means of~~ the mobile X-ray apparatus; and ~~(B)~~

a second data transmission unit, wherein the second data transmission unit is configured (i) for receiving the first data set and (ii) for forming a second data set, the second data set including an association between (ii)(a) parameters of the X-ray exposure of the first data set, (ii)(b) predetermined patient data, and (c) the image data of the X-ray exposure which is stored in digital form on an image cassette, the diagnostic X-ray system further comprising:

a mobile patient data terminal, wherein the mobile patient terminal comprises:

a data transmission unit, wherein the data transmission unit receives the first data set, and

a microcontroller, wherein the microcontroller compares (i) an identification number of the X-ray apparatus that transmitted the first data set with (ii) an identification number of the mobile patient data terminal for consistency in order to enable correct association of the received signal with the transmitting X-ray apparatus, and subjects a date and time of the first data set to a plausibility test, where in an absence of plausibility or in case of errors, the microcontroller first requests, via the data transmission unit, a repeat transmission of the first data set, and further in as far as a newly received first data set is not plausible or contains errors that cannot be corrected, the microcontroller then terminates further evaluation, otherwise the microcontroller forms a further data set corresponding to a completed patient data set that (1) combines (i) parameters of the X-ray exposure with (ii) predetermined patient data associated with the parameters of the X-ray exposure before a new X-ray exposure can be made and (2) ensures that the further data set formed is

unambiguously associated with the relevant X-ray exposure which is stored in digital form on an image cassette.

7. (canceled)

8. (currently amended) A method for transmission of data in a diagnostic X-ray system, comprising:

producing imaging data of an X-ray exposure in response to actuation of a start switch of an X-ray apparatus, and

subsequent to the execution of the X-ray exposure in the X-ray apparatus, generating and transmitting a first data set for being transmitted to a further component of the diagnostic X-ray system, the first data set (a) being assembled via a software program of an arithmetic unit started simultaneously with actuation of the start switch, (b) including one selected from the group consisting of (b)(i) selected parameters, (b)(ii) automatically adjusted parameters, and (b)(iii) both selected and automatically adjusted parameters of the X-ray exposure, and (c) extended with further information for enhancing, ~~wherein the further information serves to enhance~~ protection against errors during a transmission of the first data set from the X-ray apparatus, the further information including (c)(i) a time stamp, (c)(ii) an unambiguous data set identification number, and (c)(iii) a checksum;

comparing (i) an identification number of the X-ray apparatus that transmitted the first data set with (ii) an identification number of a mobile patient data terminal for consistency in order to enable correct association of the received signal with the transmitting X-ray apparatus, and subjecting a date and time of the first data set to a plausibility test, where in an absence of plausibility or in case of errors, first requesting a repeat transmission of the first data set, and further in as far as a newly received first data set is not plausible or contains errors that cannot be corrected, terminating further evaluation, otherwise forming a second data set corresponding to a completed patient

data set that (1) combines (i) parameters of the X-ray exposure with (ii) predetermined patient data associated with the parameters of the X-ray exposure before a new X-ray exposure can be made and (2) ensures that the second data set formed is unambiguously associated with the relevant X-ray exposure which is stored in digital form on an image cassette.

9. (previously presented) The method as claimed in claim 8, wherein transmitting the first data set includes transmitting to a mobile patient data terminal, the method further comprising:

forming a third data set, wherein the third data set comprises parameters of the X-ray exposure, preselectable patient data, and an identification number of an image cassette on which the X-ray exposure is stored.

10. (previously presented) The method as claimed in claim 9, the method further comprising:

transmitting the third data set formed by the mobile patient data terminal to a data processing unit; and

forming a fourth data set, wherein the fourth data set comprises parameters of the X-ray exposure, preselectable patient data, and image data of the X-ray exposure.

11-15. (canceled)